

BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTTTT LLL
BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTTTT LLL
BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTTTT LLL
BBB BBB AAA AAA SSS
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSS
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSS
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSS
BBB BBB AAAAAAAA SSS
BBB BBB AAAAAAAA SSS
BBB BBB AAAAAAAA SSS
BBB BBB AAA AAA SSS
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS

FILEID**BPSTRUCT

BBBBBBBB	PPPPPPP	AAAAAA	SSSSSSS	TTTTTTTT	RRRRRRR	UU	UU	CCCCCCC	TTTTTTTT
BBBBBBBB	PPPPPPP	AAAAAA	SSSSSSS	TTTTTTTT	RRRRRRR	UU	UU	CCCCCCC	TTTTTTTT
BB	BB	PP	PP	AA	AA	SS	TT	RR	RR
BB	BB	PP	PP	AA	AA	SS	TT	RR	RR
BB	BB	PP	PP	AA	AA	SS	TT	RR	RR
BB	BB	PP	PP	AA	AA	SS	TT	RR	RR
BBBBBBBB	PPPPPPP	AA	AA	SSSSSS	TT	RRRRRRR	UU	UU	TT
BBBBBBBB	PPPPPPP	AA	AA	SSSSSS	TT	RRRRRRR	UU	UU	TT
BB	BB	PP		AAAAAAA	SS	TT	RR	RR	TT
BB	BB	PP		AAAAAAA	SS	TT	RR	RR	TT
BB	BB	PP		AA	SS	TT	RR	RR	TT
BB	BB	PP		AA	SS	TT	RR	RR	TT
BBBBBBBB	PP	AA	AA	SSSSSS	TT	RR	UUUUUUUU	CCCCCCC	TT
BBBBBBBB	PP	AA	AA	SSSSSS	TT	RR	UUUUUUUU	CCCCCCC	TT

RRRRRRR	EEEEEEEEE	QQQQQQ
RRRRRRR	EEEEEEEEE	QQQQQQ
RR	RR	EE
RRRRRRR	EEEEEEE	QQ
RRRRRRR	EEEEEEE	QQ
RR	RR	EE
RR	RR	EEEEEEEEE
RR	RR	EEEEEEEEE

+ This file, BPASTRUCT.REQ, defines the data structure definition macros
to aid people using BLISS BLOCK data structures

* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
* ALL RIGHTS RESERVED.

* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
* TRANSFERRED.

* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
* CORPORATION.

* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

AUTHOR: J. Ankcorn

MODIFIED BY: J. Barker

Changes to facilitate use with BLISS-32 on VAX.

Edit History:

- 1-001 - Original, from STRUCT.R32, from ESE. JBS 02-OCT-1979
- 1-002 - Remove the defense against requiring this file redundantly.
JBS 02-OCT-1979
- 1-003 - Add copyright notice. SBL 11-Mar-1980

--
POSITION AND SIZE MACROS

The following macros must be used in defining field names for
compiler structures to supply the position, size and extension
values for a BLOCK or BLOCKVECTOR structure reference.
The various forms are :

A	Materialized Address.
L	Longword.
W	Zero extended word.
B	Zero extended byte.
V	Zero extended bit field.
M	Define bit field mask.

SW	Sign extended word.
SB	Sign extended byte.
SV	Sign extended bit field.

The "A" forms should be used whenever the field being defined is such that the only valid structure reference is one that materializes the address of the field. An example of such a field is an ASCII string.

Each of the "V", "M" and "SV" forms takes one or two arguments. The first parameter is the bit position within the word and the second is the size of the field. The second parameter is optional; the default size is 1.

MACRO

A_=	0,	0,	0 %,
L_=	0,	32,	0 %,
W_=	0,	16,	0 %,
B_=	0,	8,	0 %,
V_(P,S)=	P,	%IF %NULL(S) %THEN 1 %ELSE S %FI, 0 %,	
M_(P,S)=	1^(%IF %NULL(S) %THEN 1 %ELSE S %FI + P) - 1^P %,		
SW_=	0,	16,	1 %,
SB_=	0,	8,	1 %,
SV_(P,S)=	P,	%IF %NULL(S) %THEN 1 %ELSE S %FI, 1 %;	

! End of file BPASTRUCT.REQ

0019 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

BASERR
REF

BASF RAMI
RED

BASOPN
REF

BPADABDE
BED

BPAXRBDEF
BFC

BPAEERDEF BPAFUNDDEF
REQ REQ

BASINAR
REO

MATRIX
MAR

BASICOER
REQ

EASRTL